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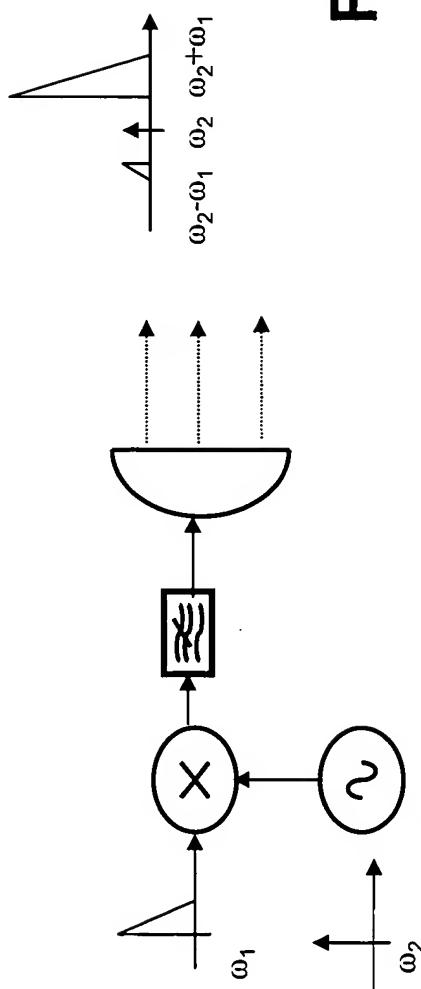


FIG. 1

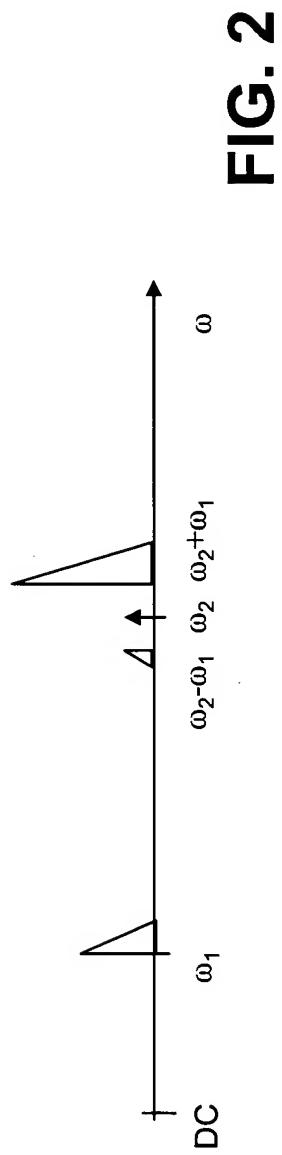


FIG. 2

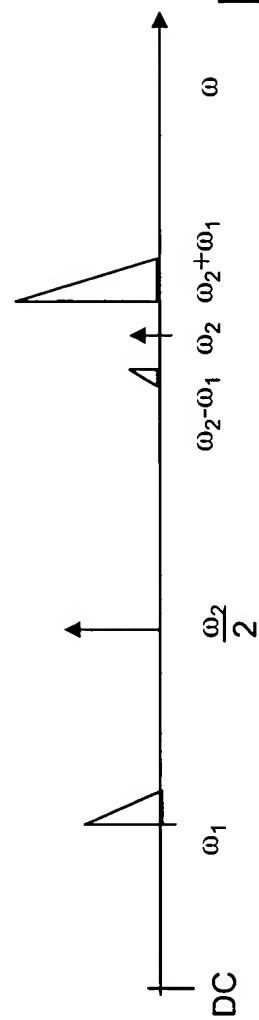
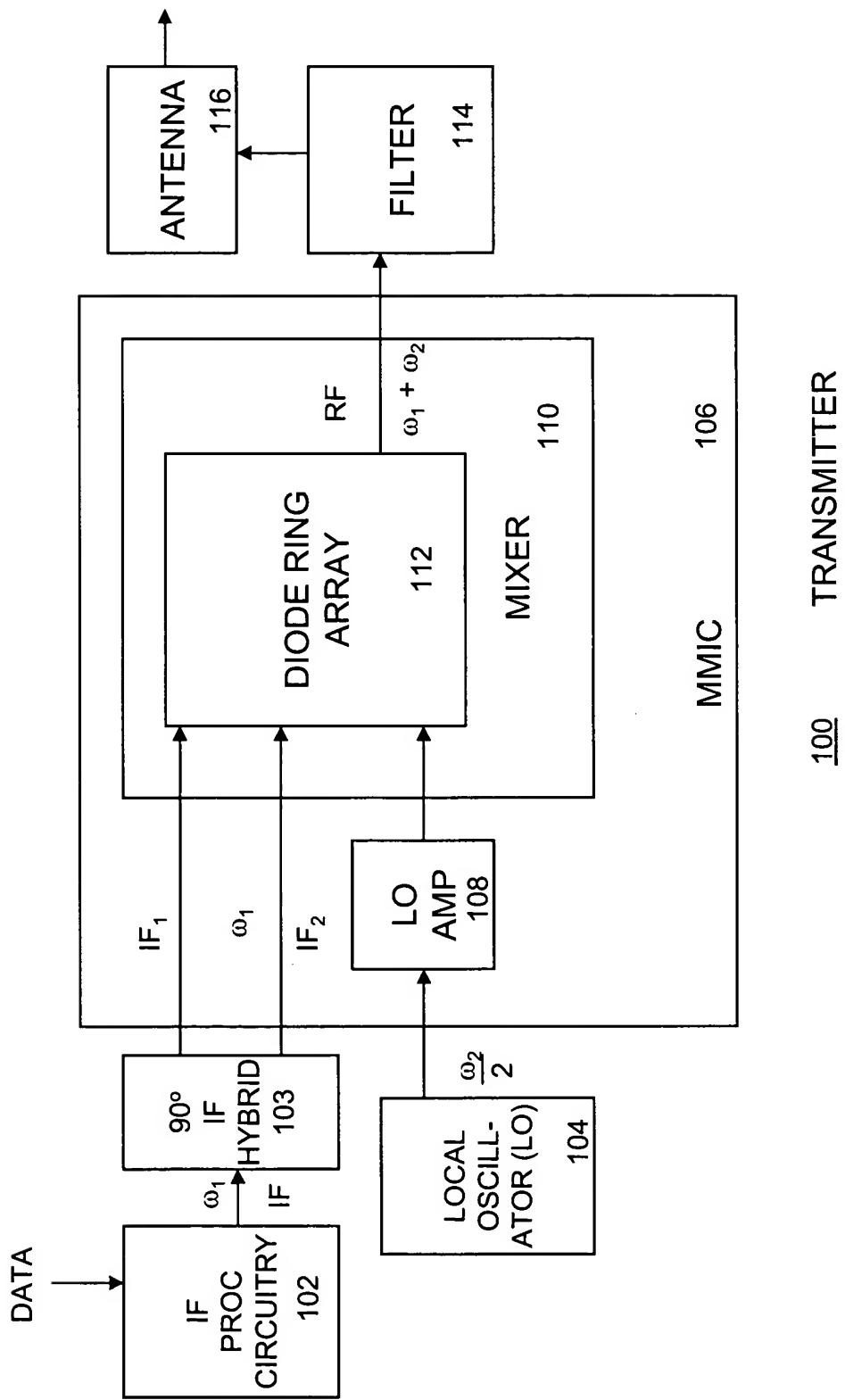
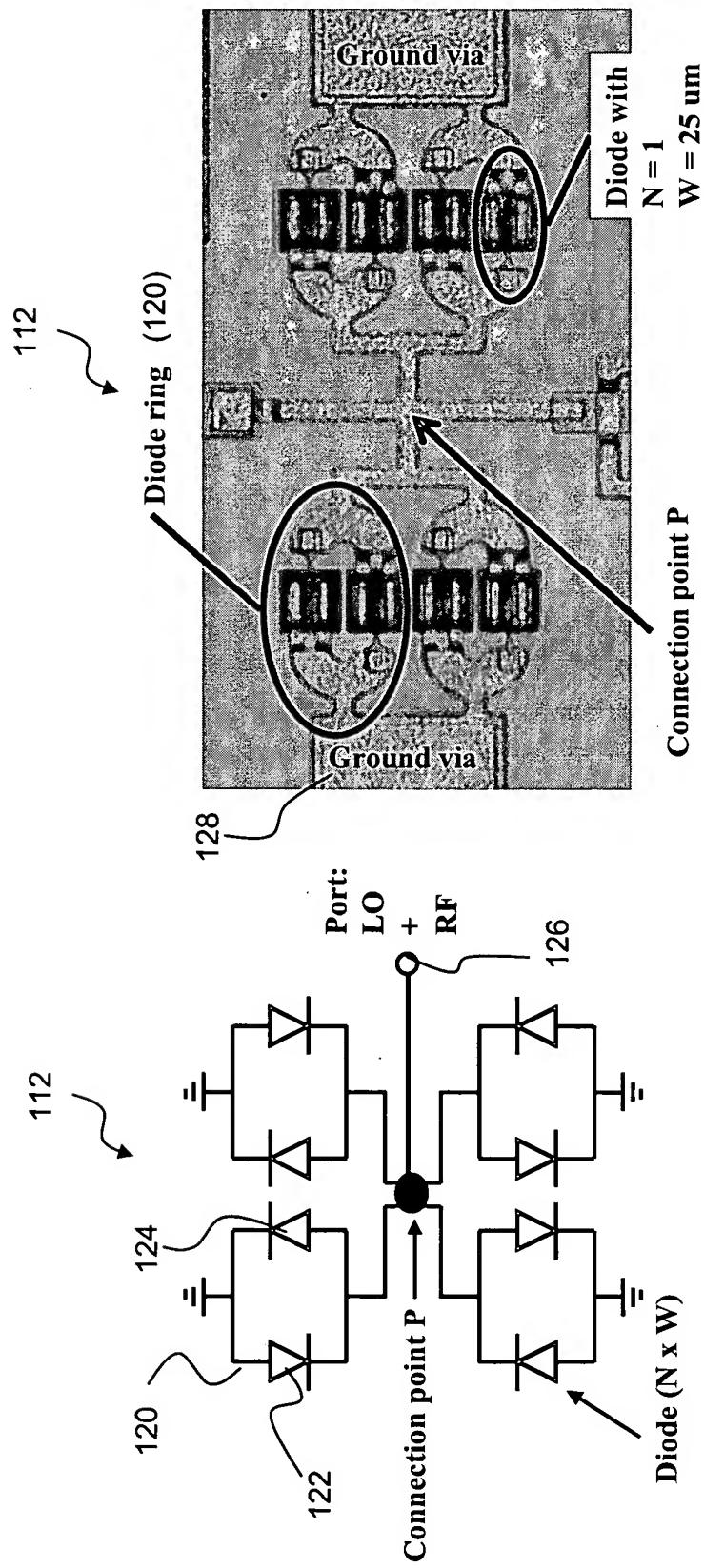


FIG. 3B



**FIG. 3A**



**FIG. 4A**

**FIG. 5A**

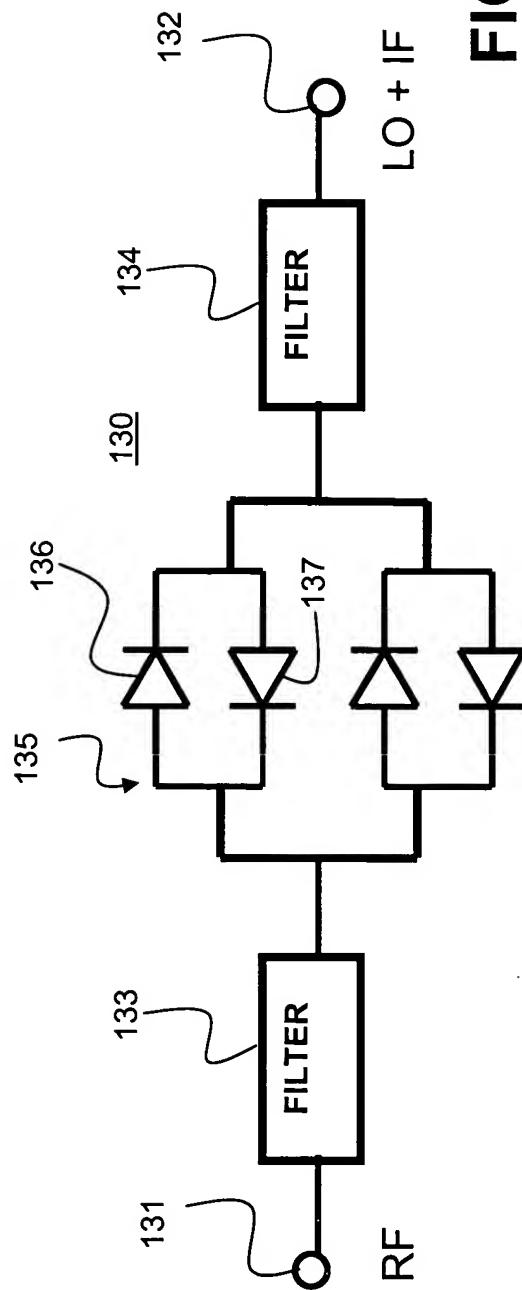


FIG. 4B

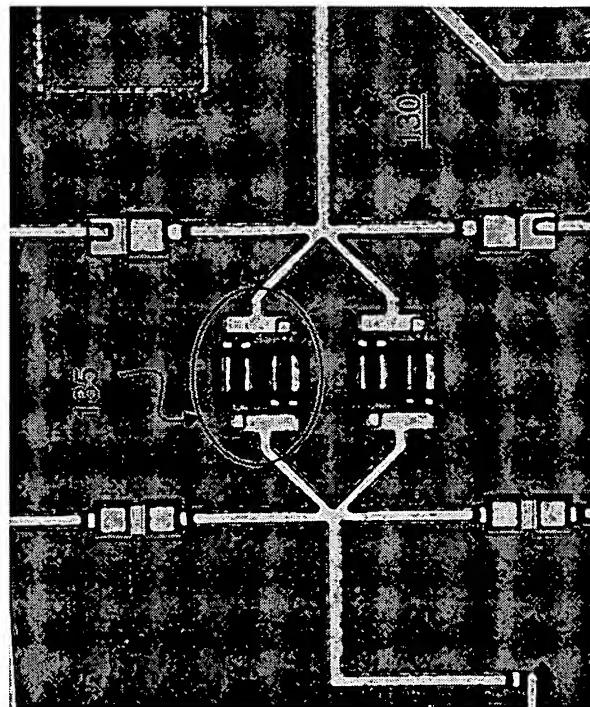


FIG. 5B

FIG. 6

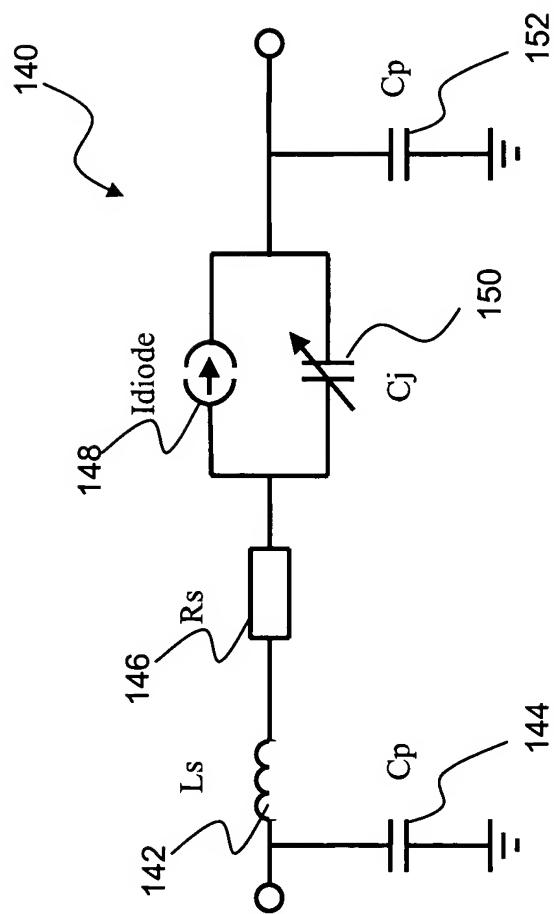


FIG. 7

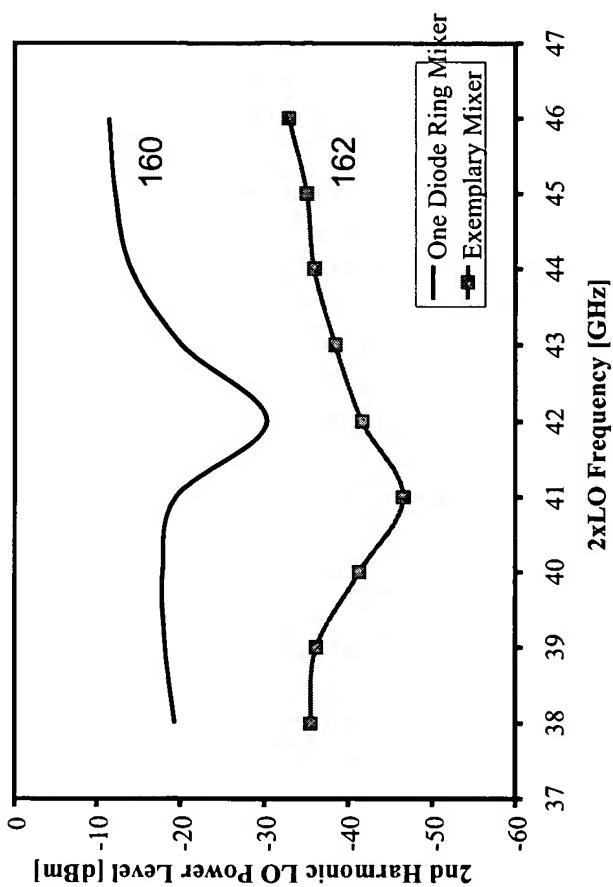
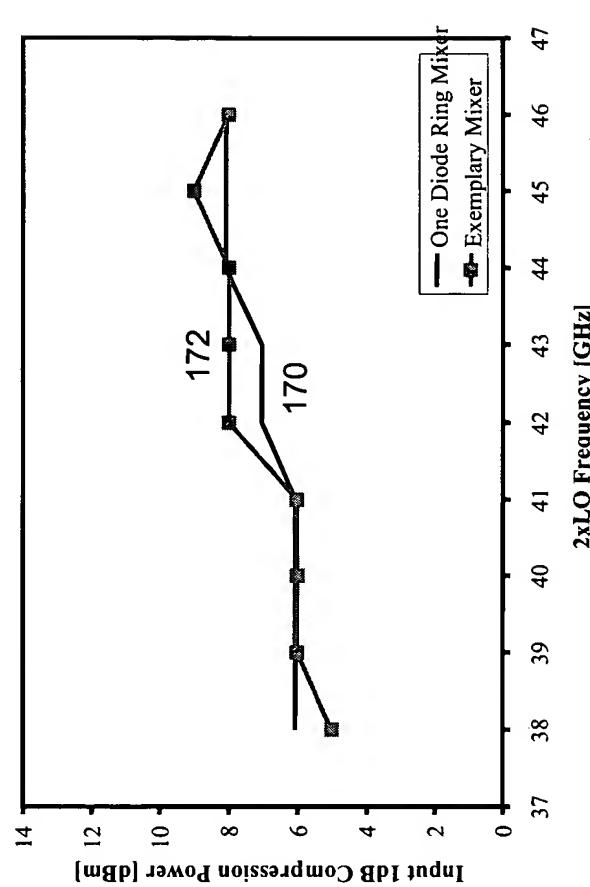
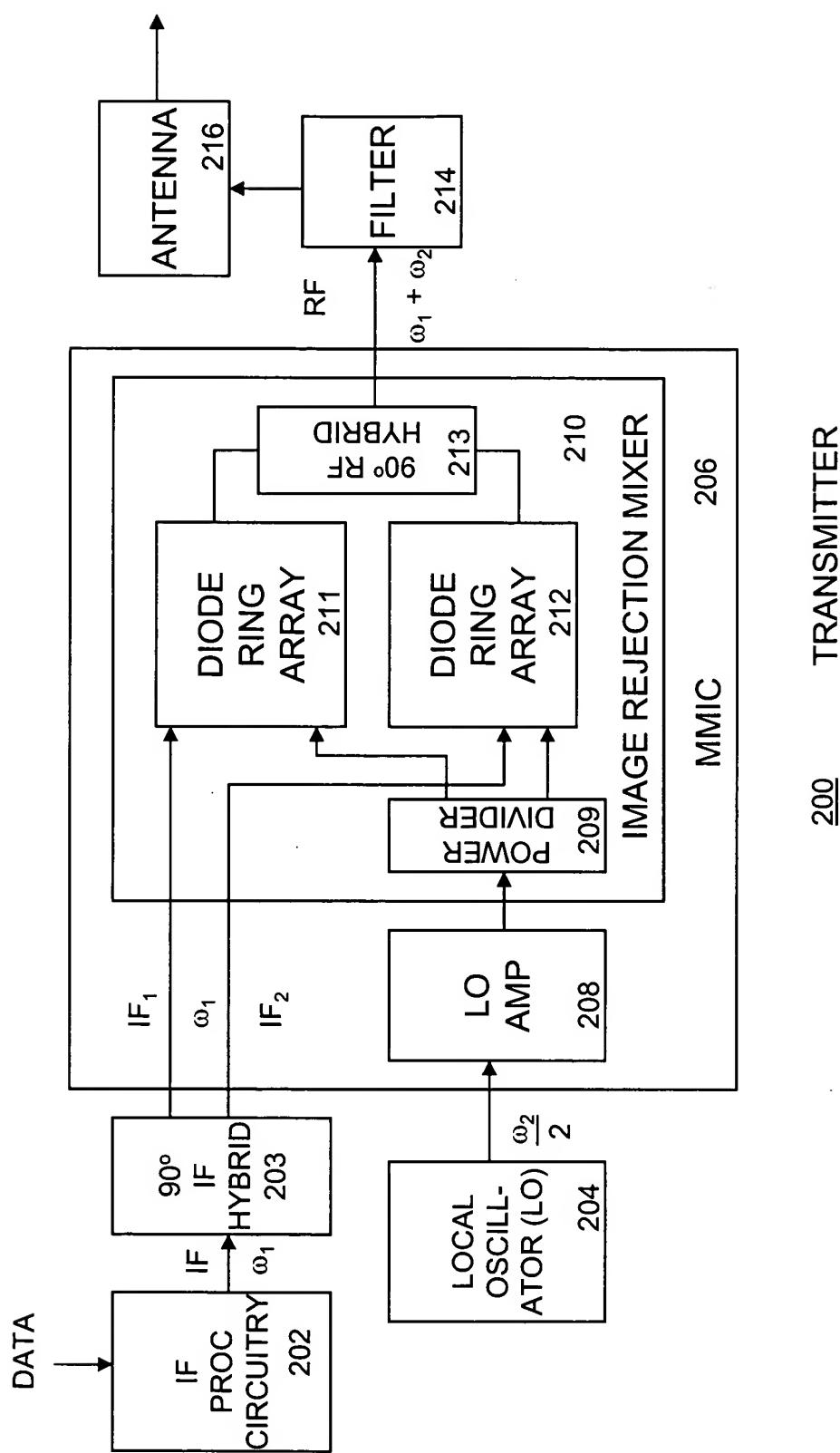


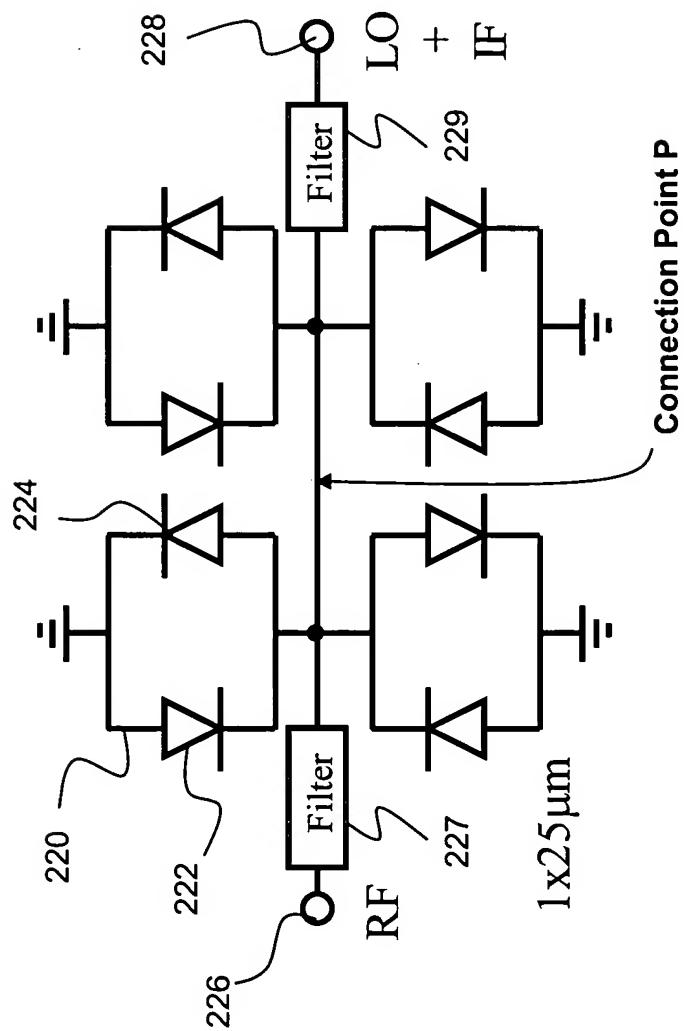
FIG. 8





**FIG. 9**

**FIG. 10**



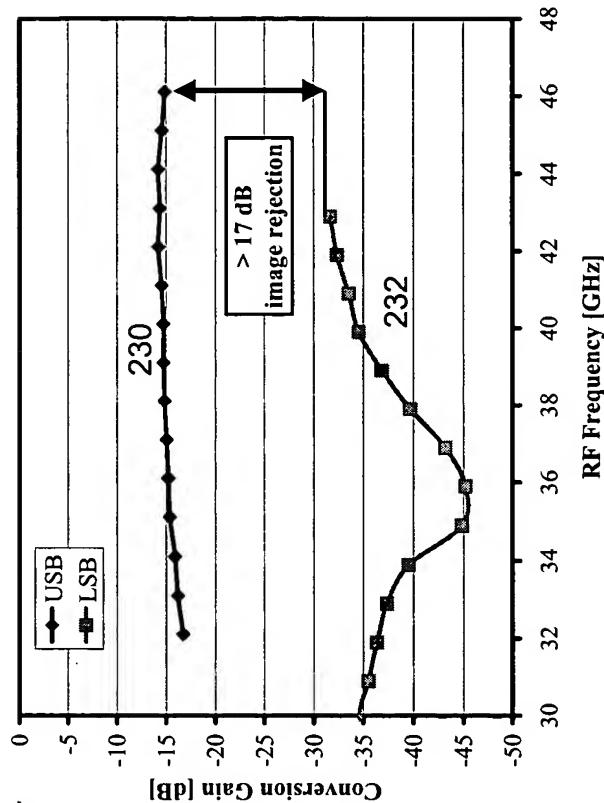


FIG. 11

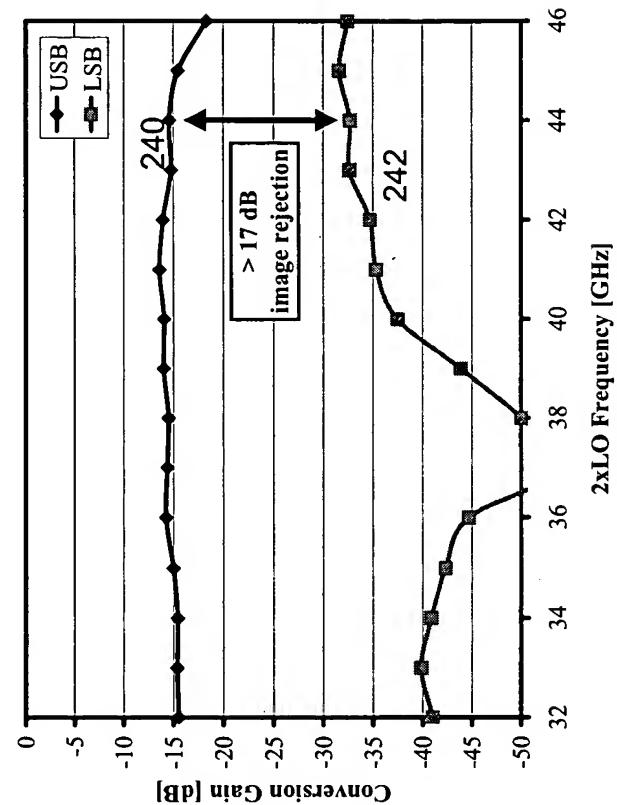
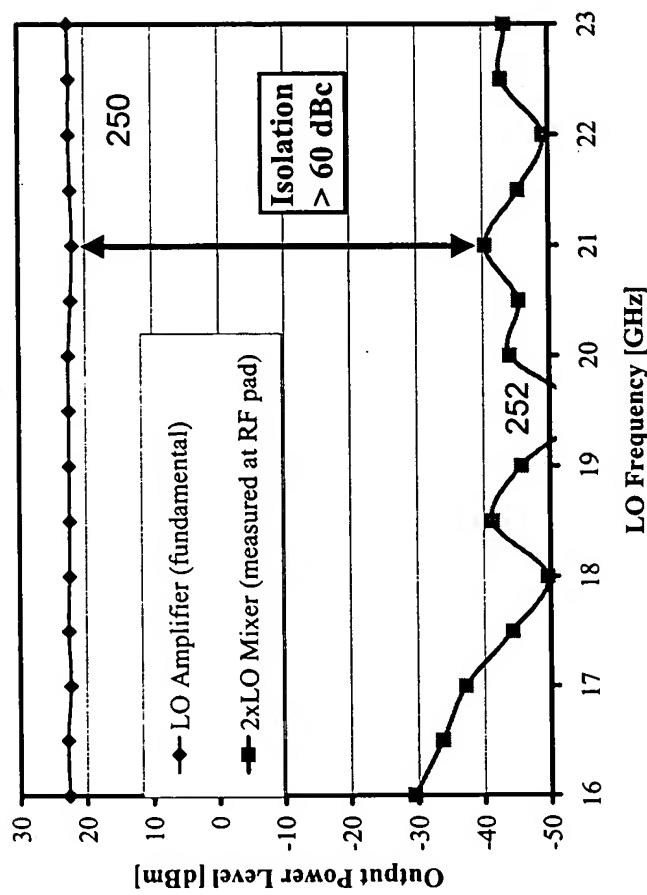
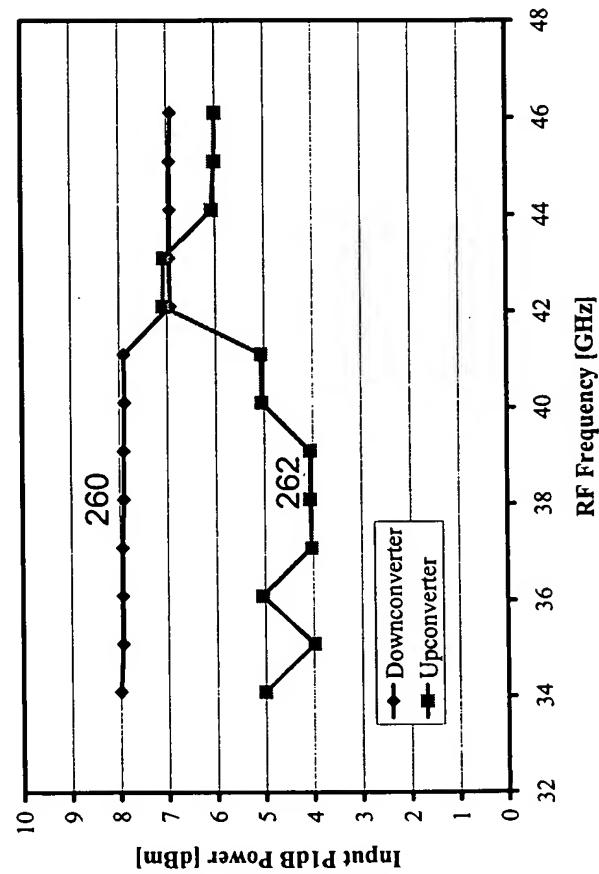


FIG. 12

FIG. 13A



Performance of Parallel Connected Mixer  
 $f_{IF} = 2.1 \text{ GHz}$ ;  $P_{LO} = 20 \text{ dBm}$



P1G40\_V5;  $f_{IF}=2.1\text{GHz}$ ;  $P_{LO}=20\text{ dBm}$

2XLO Power Level [dBm]

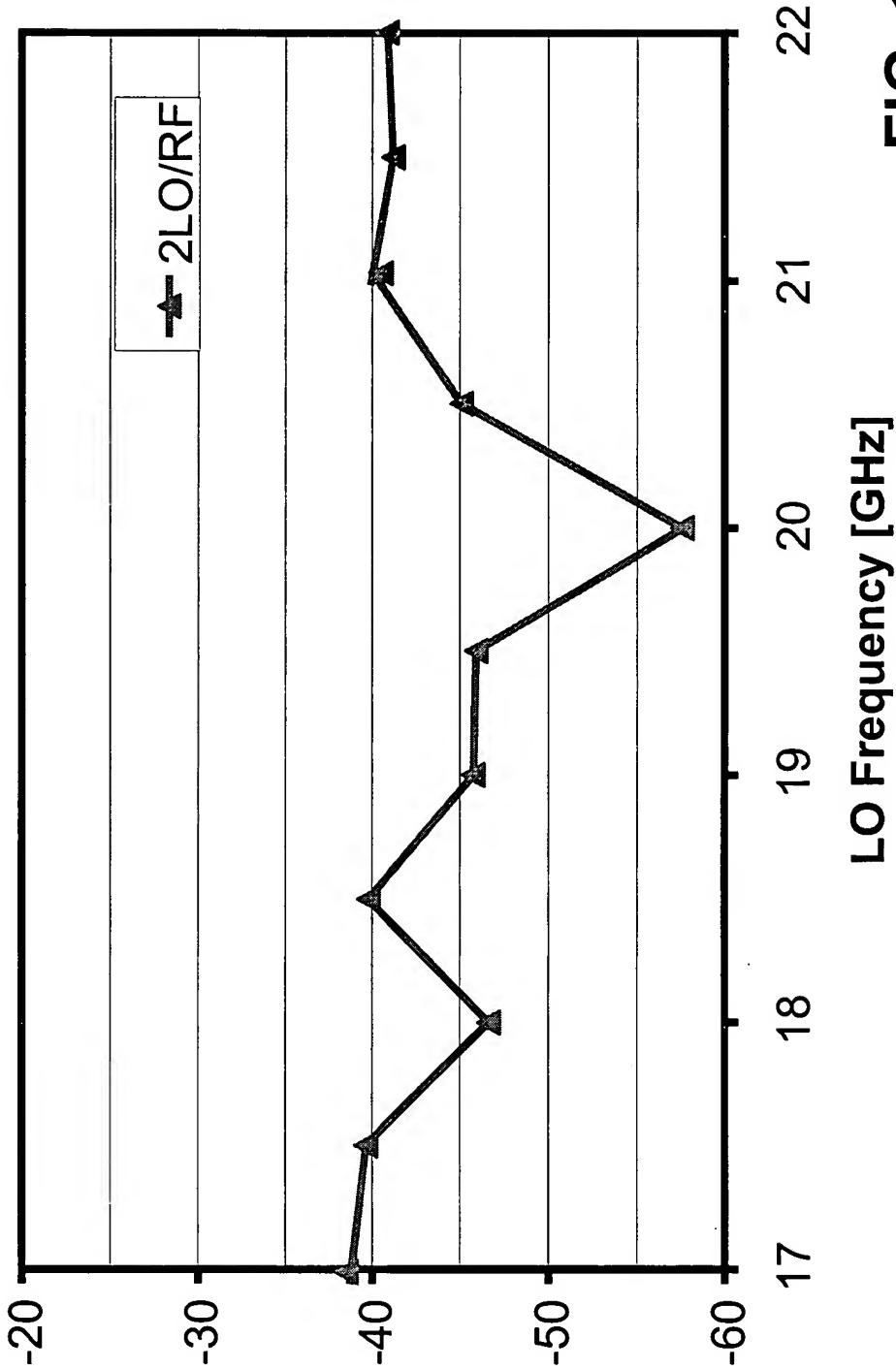
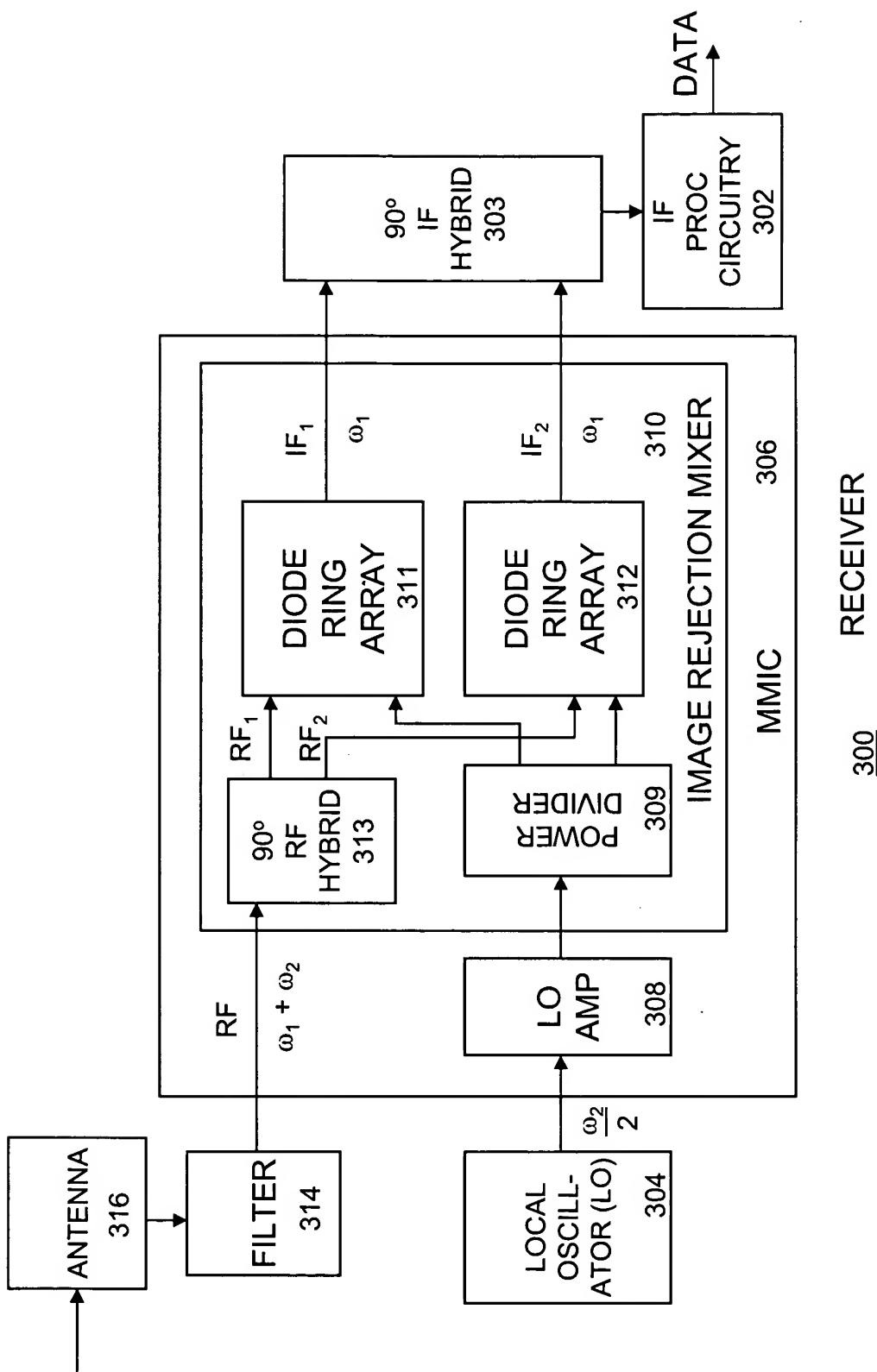


FIG. 13B



**FIG. 15**

Performance of Series Connected Mixer  
 $f_{IF} = 2.1 \text{ GHz}$ ;  $P_{LO} = 20 \text{ dBm}$

Power Level [dBm]

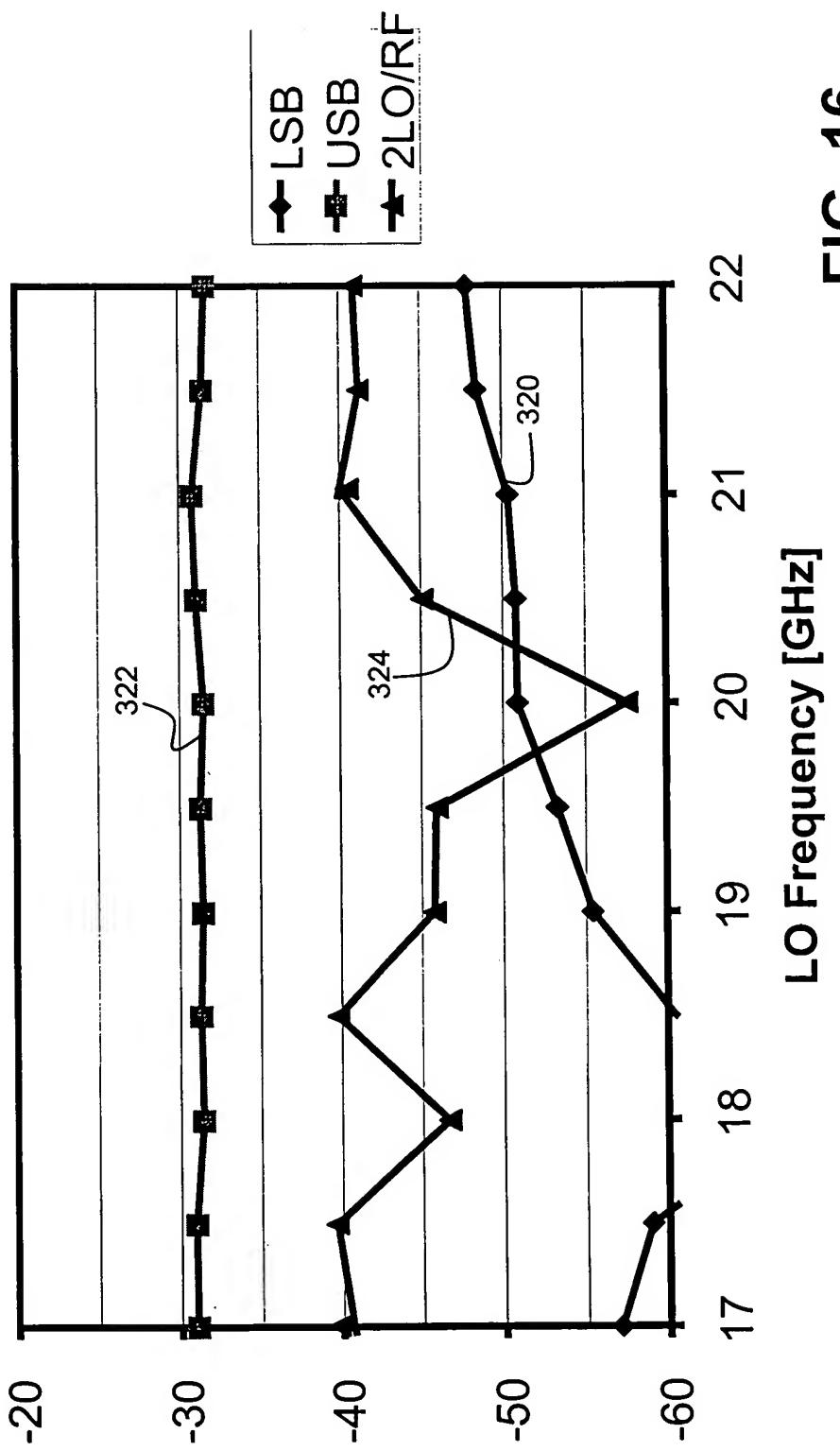


FIG. 16